

Declaration Utility Application

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled HIGH TEMPERATURE HEAP BIOLEACHING PROCESS, the specification of which

(Check One)

is attached hereto OR

was filed on August 29, 2000 as United States Application

Serial No. 09/650,319 or PCT International Application No. and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Date of Filing	Priority Yes	<u>Claimed</u> No

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Parent Number	Parent Filing Date	Status-Patented, Pending or Abandoned
09/212,579		December 14, 1998	Patented 6,110,253

	d Correspondence to: d A. Randall	LYON & LYON LLP 633 W Fifth St., Suite 47 Los Angeles, CA 90071		Direct Telep (213) 489- Ext. 3453	phone calls to: 1600	
	FULL NAME OF INVENTOR	FIRST Name William	MIDDLE Initial J.		LAST Name KOHR	
201	RESIDENCE & CITIZENSHIP	City San Mateo	State or Foreigr California	n Country	Country of Citizens United States of	ship of America
	POST OFFICE ADDRESS	40 Powhatan Place	City San Mateo		State or Country USA	Zip Code 94402
	FULL NAME OF INVENTOR	FIRST Name Vandy	MIDDLE Initial		LAST Name SHRADER	
202	RESIDENCE & CITIZENSHIP	City Belmont	State or Foreigr California	Country	Country of Citizens United States of	
	POST OFFICE ADDRESS	1934 Hillman Avenue	City Belmont		State or Country USA	Zip Code 94002
	FULL NAME OF INVENTOR	FIRST Name Chris	MIDDLE Initial		LAST Name Johansson	
203	RESIDENCE & CITIZENSHIP	City San Bruno	State or Foreigr California	Country	Country of Citizens United States of	ship of America
	POST OFFICE ADDRESS	2846 Fleetwood Drive	City San Bruno		State or Country 94066	Zip Code
	FULL NAME OF INVENTOR	FIRST Name	MIDDLE Initial		LAST Name	
204	RESIDENCE & CITIZENSHIP	City	State or Foreign	Country	Country of Citizens	ship
	POST OFFICE ADDRESS		City		State or Country	Zip Code
	FULL NAME OF INVENTOR	FIRST Name	MIDDLE Initial		LAST Name	2
205	RESIDENCE & CITIZENSHIP	City	State or Foreign	Country	Country of Citizens	ship
	POST OFFICE ADDRESS		City		State or Country	Zip Code
	FULL NAME OF INVENTOR	FIRST Name	MIDDLE Initial		LAST Name	
206	RESIDENCE & CITIZENSHIP	City	State or Foreign	Country	Country of Citizens	ship
	POST OFFICE ADDRESS		City		State or Country	Zip Code

are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor	201	Signature of Inventor	204
Date 12/2/2005		Date	
Signature of Inventor	202	Signature of Inventor	205
Date 12/5/2000		Date	
Signature of Inventor	203	Signature of Inventor	206
Date 12/02/00	*******	Date	

(Signatures should conform to names as presented at 201 et seq. above.)

POWER OF ATTORNEY

GEOBIOTICS, INC., assignee(s) of the application for United States Letters Patent for an improvement in HIGH TEMPERATURE HEAP BIOLEACHING PROCESS by William J. KOHR, Vandy SHRADER and Christ JOHANSSON, the specification of which was
executed on and bearing attorney Docket No, or
filed having Serial No. <u>09/650,319 on August 29, 2000</u> .
hereby appoint as its attorneys and/or agents, with full power of substitution and revocation, to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Roland N. Smoot, Reg. No. 18,718; Conrad R. Solum, Jr., Reg. No. 20,467; James W. Geriak, Reg. No. 20,233 Robert M. Taylor, Jr., Reg. No. 19,848; Samuel B. Stone, Reg. No. 19,297; Douglas E. Olson, Reg. No. 22,798; Robert E. Lyon, Reg. No. 24,171; Robert C. Weiss, Reg. No. 24,939; Richard E. Lyon, Jr., Reg. No. 26,300; John D. McConaghy, Reg. No. 26,773; William C. Steffin, Reg. No. 26,811; Coe A. Bloomberg, Reg. No. 26,605; J. Donald McCarthy, Reg. No. 25,119; John M. Benassi, Reg. No. 27,483; James H. Shalek Reg. No. 29,749; Allan W. Jansen, Reg. No. 29,395; Robert W. Dickerson, Reg. No. 29,914; Roy L. Anderson, Reg. No. 30,240; David B. Murphy, Reg. No. 31,125; James C. Brooks, Reg. No. 29,898; Jeffrey M. Olson, Reg. No. 30,790; Steven D. Hemminger, Reg. No. 30,755; Jerrold B. Reilly, Reg. No. 32,293 Paul H. Meier, Reg. No. 32,274; John A. Rafter, Jr., Reg. No. 31,653; Kenneth H. Ohriner, Reg. No. 31,646 Mary S. Consalvi, Reg. No. 32,212; Lois M. Kwasigroch, Reg. No. 35,579; Lawrence R. LaPorte, Reg. No. 38,948; Robert C. Laurenson, Reg. No. 34,206; Carol A. Schneider, Reg. No. 34,923; Hope E. Melville Reg. No. 37,194; Theodore S. Maceiko, Reg. No. 35,593; Bruce G. Chapman, Reg. No. 33,846; and F.T Alexandra Mahaney, Reg. No. 37,668; and David A. Randall, Reg. No. 37,217.
Send Correspondence to: LYON & LYON LLP Direct Telephone calls to: (213) 489-1600 Los Angeles, CA 90071-2066 Ext. 3453
I, the undersigned, declare that I am the (an) assignee of the above-identified application or, if the assignee is a corporation, partnership or other association, I am authorized to make this appointment on behalf of the assignee and I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine o imprisonment, or both, under Section 1001 of Title 19 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.
Full Name of Assignee: GEOBIOTICS, INC.
Post Office Address: 14818 W. 6 th Avenue, Suite 5-A, Golden, Colorado 80401
Signature of Declarant or Assigned. December 12, 2000
Full Name of Declarant (If Other Than Assignee): Desmond P. Kearns Title of Declarant: President and Chief Executive Officer Address of Declarant: GEOBIOTICS, INC., 14818 W. 6 th Avenue, Suite 5-A, Golden, Colorado 80401



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SEPTEMBER 27, 2001

PTAS

LYON & LYON LLP DAVID A. RANDALL 633 WEST FIFTH STREET SUITE 4700 LOS ANGELES, CA 90071-2066



101789772A



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD TIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/23/2001

REEL/FRAME: 012002/0001

NUMBER OF PAGES: 5

M BRIEF: MERGER (SEE DOCUMENT FOR DETAILS).

SSIGNOR:

GEOBIOTICS, INC.

DOC DATE: 12/28/2000

ASSIGNEE:

GEOBIOTICS, LLC

14818 WEST 6TH AVENUE

SUITE 5-A

GOLDEN, COLORADO 80401

SERIAL NUMBER: 08329002

PATENT NUMBER:

FILING DATE: 10/25/1994

ISSUE DATE:

SERIAL NUMBER: 08459621

PATENT NUMBER:

FILING DATE: 06/02/1995

ISSUE DATE:

SERIAL NUMBER: 09650319

PATENT NUMBER:

FILING DATE: 08/29/2000

ISSUE DATE:

SERIAL NUMBER: 09709765

PATENT NUMBER:

FILING DATE: 11/10/2000

ISSUE DATE:

Express Mail No. EL 740478036 US

012002/0001 PAGE 2

SERIAL NUMBER: PATENT NUMBER:		FILING DATE: 12/12/2000 ISSUE DATE:
SERIAL NUMBER: PATENT NUMBER:	08161742 5431717	FILING DATE: 12/03/1993 ISSUE DATE: 07/11/1995
SERIAL NUMBER: PATENT NUMBER:	5573575	FILING DATE: 11/16/1994 ISSUE DATE: 11/12/1996
SERIAL NUMBER: PATENT NUMBER:	08453016 5611839	FILING DATE: 05/30/1995 ISSUE DATE: 03/18/1997
SERIAL NUMBER: PATENT NUMBER:	5676733	FILING DATE: 06/07/1995 ISSUE DATE: 10/14/1997
SERIAL NUMBER: PATENT NUMBER:	08652993 5688304	FILING DATE: 05/24/1996 ISSUE DATE: 11/18/1997
SERIAL NUMBER:	5/00930	FILING DATE: 04/22/1996 ISSUE DATE: 06/16/1998
SERIAL NUMBER: PATENT NUMBER:	08547894 5779762	FILING DATE: 10/25/1995 ISSUE DATE: 07/14/1998
SERIAL NUMBER: PATENT NUMBER:	5800593	FILING DATE: 03/18/1997 ISSUE DATE: 09/01/1998
SERIAL NUMBER: PATENT NUMBER:	08588589 6083730	FILING DATE: 01/18/1996 ISSUE DATE: 07/04/2000
SERIAL NUMBER: PATENT NUMBER:	09060273 6086656	FILING DATE: 04/14/1998 ISSUE DATE: 07/11/2000
SERIAL NUMBER: PATENT NUMBER:	08886840 6107065	FILING DATE: 07/01/1997 ISSUE DATE: 08/22/2000
SERIAL NUMBER: PATENT NUMBER:	09212579 6110253	FILING DATE: 12/14/1998 ISSUE DATE: 08/29/2000
SERIAL NUMBER: PATENT NUMBER:	08950279 6146444	FILING DATE: 10/14/1997 ISSUE DATE: 11/14/2000
SERIAL NUMBER: PATENT NUMBER:	09097316 6159726	FILING DATE: 06/12/1998 ISSUE DATE: 12/12/2000

TONYA LEE, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS Express Mail No. EL 740478036 US

EL /404/8036 US 07 - 2	27 <i>-</i> 2001	
FORM PTO-1595 1-31-92 RECOF	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
To the Honorable Commissioner of Patents and 101	789772 ginal documents or copy thereof.	
	2. Name and address of receiving party:	
1. Name of conveying party(les): 7-33-67 Geobiotics, Inc.	Name: GeoBiotics, LLC // / {	
Additional name(s) of conveying party(ies) attached?		
☐ Yes ☒ No	Internal Address: JUL 2 3 2001	
3. Nature of conveyance:	hom	
Assignment Merger	City: State: Zip:	
☐ Security Agreement ☐ Change of Name	•	
П от	Street Address: 14818 West 6th Avenue, Suite 5-A	
Other	014 0 0 77 0 00404	
Execution Date: December 28, 2000	City: Golden State: Co Zip: 80401	
Execution Date. December 29, 2000	Additional name(s) & address(es) attached?	
Application number(s) or patent number(s):	Additional fiame(s) & address(es) attached:	
If this document is being filed together with a new ap	plication, the execution date of the application is:	
	B. Patent No(s).: 5.431,717 Filed: 12/3/93 Attorney Docket	
A. Patent Application No(s).: <u>08/329,002 Filed: 10/25/94</u> Attorney Docket No. 209/233	No. 204/256	
Additional numbers att	ached? 🛛 Yes 🔲 No	
Name and address of party to whom correspondence	6. Total number of applications and patents involved: 19	
concerning document should be mailed:	·	
Name: <u>David A. Randall</u>	7. Total fee (37 CFR 3.41): \$ 760.00	
Internal Address: LYON & LYON LLP		
633 West Fifth Street, Suite 4700 Los Angeles, CA 90071-2066	Charge this Deposit Account if any additional fee is required	
	8. Deposit Account Number: 12-2475	
	o. Doposit/Notocalit/Nations/	
7, 3	E THIS SPACE	
9. Statement and signature:		
J Company of the comp		
To the best of my knowledge and belief, the foregoing informa	tion is true and correct and any attached copy is a true copy of the	
original document.		
1 1 1 1 1 1 1	Date: July 19, 2001	
David A. Randall, Reg No. 37,217	Date: July 18, 2001	
David A. Rahdah, Reg 140. 37,21		
Total number of pages including cover shee	et: <u>5</u> (NOTE: Apostille on back of last page.)	
OMB No. 0651-0011 (exp. 4/94)		
	•	
	ch this portion	
Mail documents to be recorded with required cover sheet info	rmation to:	
Director — U.S. Patent and Trademark Office		
Box As:	signments	
FC:581 760.00 0P Washington	n, D.C. 20231	

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project, (0651-0011), Washington, D.C. 20503

CONTINUATION OF FORM PTO-1595, SECTION 4

Patent Applications

Serial Number	Filing Date	Attorney Docket No.
08/459,621	6/2/95	213/032
09/650,319	8/29/00	256/248
09/709,765	11/10/00	258/211
09/735,156	12/12/00	258/212

Patents

Patent Number	Filing Date	Attorney Docket No.
5,573,575	11/16/94	210/062
5,611,839	5/30/95	214/036
5,676,733	6/7/95	213/031
5,688,304	5/24/96	220/112
5,766,930	4/22/96	219/212
5,779,762	10/25/95	216/099
5,800,593	3/18/97	224/272
6,083,730	1/18/96	217/275
6,086,656	4/14/98	227/138
6,107,065	7/1/97	226/246
6,110,253	12/14/98	236/022
6,146,444	10/14/97	230/005
6,159,726	6/12/98	233/157

State of Delaware

Office of the Secretary of State

PAGE 1

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"GEOBIOTICS, INC.", A DELAWARE CORPORATION,

WITH AND INTO "GEOBIOTICS, LLC" UNDER THE NAME OF

"GEOBIOTICS, LLC", A LIMITED LIABILITY COMPANY ORGANIZED AND

EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED

AND FILED IN THIS OFFICE THE TWENTY-EIGHTH DAY OF DECEMBER, A.D.

2000, AT 9 O'CLOCK A.M.



AUTHENTICATION: 0965555

010058514

3316790 8100M

DATE: 02-09-01

STATE OF DELAWARE SECRETARY OF STATE DIVISION OF CORPORATIONS FILED 09:00 AM 12/28/2000 001657724 - 3316790

CERTIFICATE OF MERGER OF GEOBIOTICS, INC. WITH AND INTO GEOBIOTICS, LLC

Pursuant to Section 264(c) of the Delaware General Corporation Law (the "DGCL") and Section 18-209 of the Delaware Limited Liability Company Act, the undersigned limited liability company executed the following Certificate of Merger:

FIRST: The name of the surviving limited liability company is GeoBiotics, LLC, a Delaware limited liability company, and the name of the corporation being merged into this surviving limited liability company is GeoBiotics, Inc., a Delaware corporation.

SECOND: An Agreement and Plan of Merger has been approved, adopted, certified, executed and acknowledged by GeoBiotics, LLC and GeoBiotics, Inc. in accordance with Section 264 of the DGCL.

THIRD: The name of the surviving limited liability company is GeoBiotics, LLC.

FOURTH: The Agreement and Plan of Merger is on file at 14818 West 6th Avenue, Suite 5-A, Golden, Colorado 80401, the place of business of GeoBiotics, LLC.

FIFTH: A copy of the Agreement and Plan of Merger will be furnished by GeoBiotics, LLC, on request and without cost, to any stockholder of GeoBiotics, Inc. or any member of GeoBiotics, LLC.

÷79036.3

IN WITNESS WHEREOF, GeoBiotics, LLC has caused this certificate to be signed by Desmond P. Kearns, a director of GeoBiotics, LLC, the 20 day of December, 2000.

GEOBIOTICS, LLC

Name: Desmond P. Kearns

Title: Director



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

MARCH 14, 2001

LYON & LYON LLP

SUITE 4700

DAVID A. RANDALL, ESQ. 633 WEST FIFTH STREET

LOS ANGELES, CA 90071-2066

PTAS

101572792A

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/26/2000

REEL/FRAME: 011386/0964

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

KOHR, WILLIAM J.

DOC DATE: 12/02/2000

ASSIGNOR:

SHRADER, VANDY

DOC DATE: 12/05/2000

ASSIGNOR:

JOHANSSON, CHRIS

DOC DATE: 12/02/2000

ASSIGNEE:

GEOBIOTICS, INC. 14818 W. 6TH AVENUE, SUITE 5-A GOLDEN, COLORADO 80401

SERIAL NUMBER: 09650319

PATENT NUMBER:

FILING DATE: 08/29/2000

ISSUE DATE:

RECEIVED MAR 2 2 2001 U.S. PROSECUTION

011386/0964 PAGE 2

SEDLEY PYNE, PARALEGAL ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

	0192 01-05	5-2001 12.24-80		
FOR 1-31-	MPTO-1595 92 BEC 2 6 2000 RECO	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office		
Dock	et No. 256/248 1015	72792		
Tot	the Honorable Commissioner of Patents and Trademarks. Please			
1.	Name of conveying party(ies):	2. Name and address of receiving party:		
	William J. Kohr, Vandy Shrader and Chris Johansson	Name: GEOBIOTICS, INC.		
	Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No	Internal Address:		
3.	Nature of conveyance:	20.1		
1	Assignment Merger	City:State: Zip:		
14	☐ Security Agreement ☐ Change of Name	Street Address: 14818 W. 6th Avenue, Suite 5-A		
	Other	Street Address. 140 to W. Oth Avoido, Gaile G.A.		
**		City: Golden State: CO Zip: 80401		
Å	Execution Date: December 5, 2000	Additional name(s) & address(es) attached? Yes No		
4.	Application number(s) or patent number(s): If this document is being filed together with a new ap	plication, the execution date of the application is:		
		B. Patent No(s).:		
Α.	Patent Application No(s).: 09/650,319			
<u>Ē</u>	Additional numbers att	ached? 🗌 Yes 🛛 No		
5.	Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: One		
The state of the s	Name: David A. Randall, Esq.	7. Total fee (37 CFR 3.41): \$ 40.00		
	Internal Address: LYON & LYON LLP			
all and April	633 West Fifth Street, Suite 4700	Charge this Deposit Account if any additional fee is		
- 22,5	Los Angeles, CA 90071-2066	required		
		8. Deposit Account Number: 12-2475		
111-	DO NOT HE	E TUIC CRACE		
		E THIS SPACE		
9.	Statement and signature:			
₡.	To the best of my knowledge and belief, the foregoing information	ation is true and correct and any attached copy is a true copy of the		
Sing.	original document.			
		Date: <u>December 18</u> 2000		
-	101/309	Date: December 18 25		
D	avid A. Randall, Reg No. 37,217			
	Total number of pages	s including cover sheet: 5		
-	MB No. 0651-0011 (exp. 4/94)			
	The state of the s			
	Do not detach this portion			
Mail documents to be recorded with required cover sheet information to:				
	Diractor — U.S. Patent and Trademark Office			
13/23	72000 MMARMOL 00000057 122475 09650319 Box As	ssignments		
12 5%	1581 - 40, 30 CH Washingto	on, D.C. 20231		
ı				

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project, (0651-0011), Washington, D.C. 20503

ASSIGNMENT

WHEREAS, WE, WILLIAM J. KOHR, VANDY SHRADER and CHRIS JOHANSSON, all citizens of UNITED STATES OF AMERICA (hereinafter referred to as "ASSIGNORS"), have invented and own a certain invention entitled HIGH TEMPERATURE HEAP BIOLEACHING PROCESS for which application for Letters Patent of the United States of America under Attorney Docket No. 256/248 was filed on August 29, 2000 and assigned Serial No. 09/650,319; and

WHEREAS, GEOBIOTICS, INC., a corporation organized and existing under and by virtue of the laws of the State of Delaware and having its principal place of business at 14818 W. 6th Avenue, Suite 5-A, Golden, Colorado 80401 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the exclusive right, title and interest in, to and under said invention and in, to and under any Patent or similar legal protection to be obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign, transfer and set over unto the said ASSIGNEE, its successors and assigns, the full and exclusive right, title and interest to said invention and to all Letters Patent or application or similar legal protection, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for said invention by said application, and to any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in the United States or a foreign country for the full term or terms for which the same may be granted, including all priority rights under the International Convention; and ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent or any legal equivalent thereof to said ASSIGNEE, its successors and assigns, in accordance with this Assignment.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Agreement;

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents in the United States or in any foreign country, which may be necessary or desirable to carry out the purposes thereof.

WITNESS my hand at So. San Francisco, California, this 2 day of Decambe.

WILLIAM J. KOHR

STATE OF CALIFORNIA)

San Hateo) ss.

COUNTY OF ALAMEDA A)

On <u>Jecember 2</u>, 2000, before the undersigned, a Notary Public for the State and County aforesaid, personally appeared WILLIAM J. KOHR known to me to be the person whose name is subscribed to the above Assignment, and acknowledged that he executed the same.

ANACORINA LOLA Z COMM. \$ 1266787 OF THE HOTARY PUBLIC-CALIFORNIA () SAN MATEO COUNTY () COMM. EXP. JUNE 9, 2004

Notary Public in and for Said County and State

WITNESS my hand at San Mateo, California, this 5th day of December
2000.
Shale WANDY SHEADER
STATE OF CALIFORNIA COUNTY OF ALAMEDA STATE OF CALIFORNIA STATE OF CA
On
State and County aforesaid, personally appeared VANDY SHRADER known to me to be the person
whose name is subscribed to the above Assignment, and acknowledged that he executed the same.
SKIP DAHL Commission # 1256656 Notary Public - California San Marteo County My Comm. Expires Apr 9, 2004 Notary Public in and for Said County and State
WITNESS my hand at So. San Francis California, this Z day of Ole.
2000.
Chris Johansson CHRIS JOHANSSON a ka Chustapher San Mateo) ss. COUNTY OF ALAMEDA OR)
On December 2, 2000, before the undersigned, a Notary Public for the
State and County aforesaid, personally appeared CHRIS JOHANSSON known to me to be the person
whose name is subscribed to the above Assignment, and acknowledged that he executed the same.
ANACORINA LOLA COMM. # 1268787 Notary Public in and for San MATEO COUNTY O COMM. EXP. JUNE 9, 2004

LA-170785.1